



## DIFFUSERS



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2022 EDITION

**PRODUCT RANGE BROCHURE**

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Things are clear.  
Today, we spend over 90 % of our time indoors and the air we breathe is up to 8 times more polluted than outdoor air. This is why it is urgent to join to

**AIR REVOLUTION**

and strive to combat CO<sub>2</sub>, fine particles and all these invisible enemies that affect our health by causing allergies, insomnia or respiratory diseases.

**With its air diffusion range, Aldes improves the acoustic and thermal comfort of building occupants whilst contributing to the improvement of indoor air quality of your building and adapt it to your needs.**



**0.4 M/S IS THE MAXIMUM RESIDUAL AIRFLOW  
BEYOND WHICH DISCOMFORT IS FELT.**

## **Air diffusers**

**ALDES OFFERS A WIDE RANGE TO GUARANTEE  
COMFORT REGARDLESS OF AIRFLOW AND  
TEMPERATURE CONDITIONS.**



THE THREE AIR DIFFUSION PRINCIPLES  
FOR OPTIMUM COMFORT

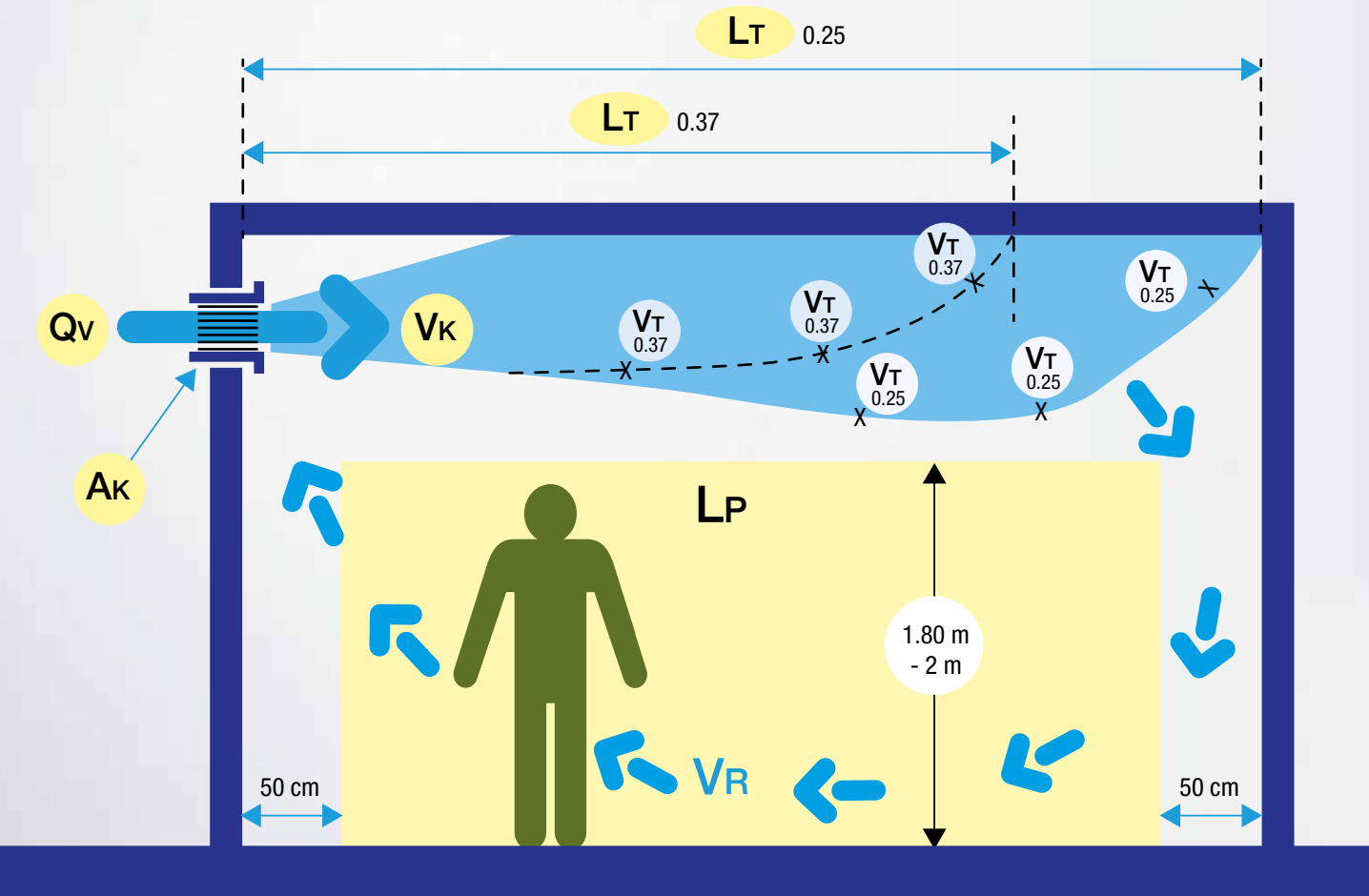
- Hear nothing: acoustic requirements for the room are met
- Feel nothing: uniform temperature throughout the room + no uncomfortable air jet
- See nothing: suitable aesthetics

Acoustic

Air management

Thermal

Aesthetic



$Q_v$  (m<sup>3</sup>/h) Airflow entering the room.  
 $A_k$  (m<sup>2</sup>) Characteristic surface of the diffusion terminal.  
 $V_k$  (m/s) Air movement speed measured at the diffusion terminal unit.  
 $L_t$  (m) Throw or axial distance between the diffuser and the air jet envelope.  
 $V_t$  (m/s) "Terminal" speed that defines the air jet envelope.  
 $V_r$  (m/s) Mean residual speed in the occupied area.  
 $L_p$  (dB(A)) Acoustic pressure level in the room (noise perceived by the occupant).  
 $L_w$  (dB(A)) Acoustic pressure level (noise) generated by air flowing through the diffusion terminal.

Aldes supports you in meeting all your needs and projects with a wide range of catalogue diffusers and even more on request.



Do not hesitate to consult  
our specific air diffusion Compulsor  
for more technical details.





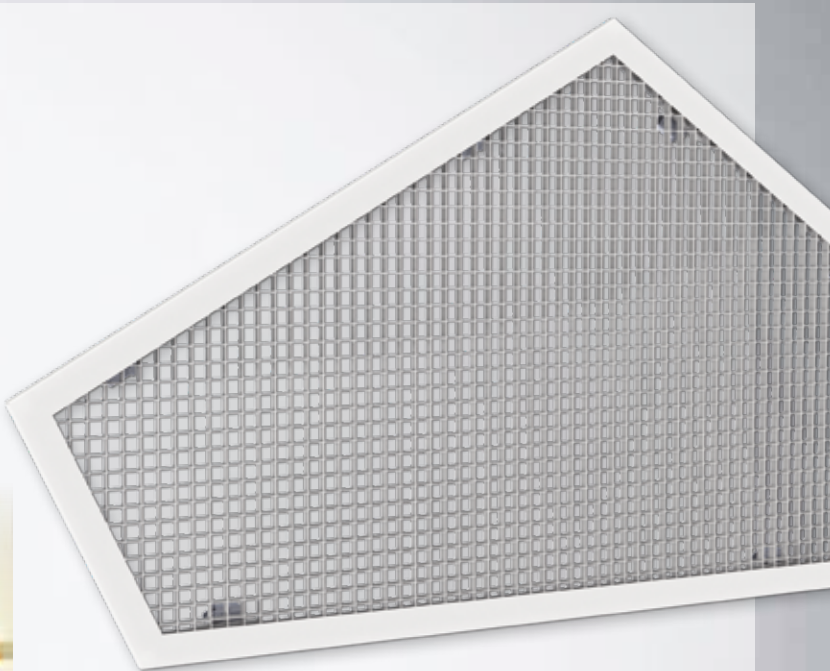
## SUPPORT FROM DESIGN RIGHT THROUGH TO COMMISSIONING.

With two major factories in Liège (Belgium) and Dubai, Aldes has more than 20,000 m² of dedicated production facilities. These industrial resources guarantee control of our manufacturing processes and product quality. It also means that we can be flexible and react quickly to the changing demands of modern building construction.

### EXPERT SKILLS

As a specialist in air management for residential and commercial premises, Aldes offers a full range of air diffusers to suit all configurations.

**With hundreds of thousands of diffusers manufactured in our factories and installed all over the world,** Aldes has secured a place as a key player in air diffusion. We direct our experience and expertise in air management to the development of innovative solutions for unceasing improvement in occupant comfort.



### SECTORAL EXPERTISE

Aldes incorporates air diffusion as part of its global strategy for commercial ventilation, thermal comfort and fire protection.

### CUSTOM DESIGN

To meet all your air diffusion needs we can customise our products to your situation and technical constraints.



The next pages feature some real-life cases where our engineering and production teams designed **turnkey solutions** suited to the most complex specifications.

- **Regional Court** of Paris, France
- **Knauf office** in Brussels, Belgium
- **Crédit Agricole head office** in Toulouse, France
- **MSC Meraviglia and Bellissima liners** of Saint-Nazaire, France



REGIONAL COURT OF PARIS

Project

How to ensure good air diffusion in the largest judicial complex in Europe while meeting demanding specifications?

CUSTOMER CONSTRAINTS

- Ensure short diffuser installation time
- Acoustic management in courtrooms
- Deliver comfortable air diffusion in three different types of spaces with a single plenum/diffuser combination
- Allow three different airflow settings without dismantling the diffuser

ALDES SOLUTIONS

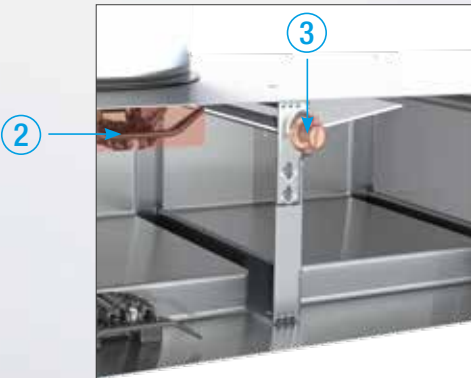
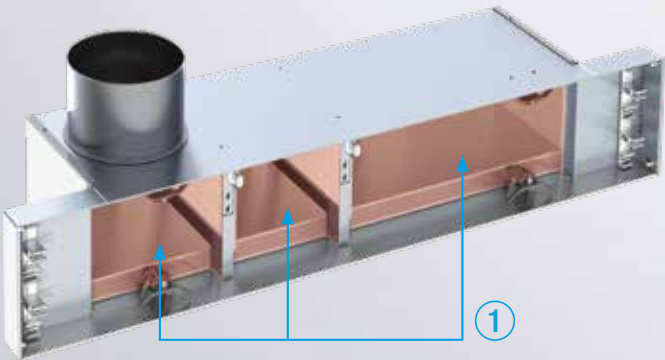
Aldes has specially designed a plenum with three airflows suitable for **Lined** and **Lined Slim** slot diffusers:

- 1 **three compartments and two removable partitions** deliver perfect air diffusion for three different airflows
- 2 Airtight partitions can be opened without dismantling the diffuser using a single accessible screw
- 3 **Fast installation/removal** of plenum using concealed clips



Execution

Architects	Renzo Piano Building Workshop
City	Paris
Building	Public Service
Type of project	New build
Surface area	110,000 m²
Year of construction	2018
Aldes products	✓ 4,500 special Lined Slim and Lined S diffusers ✓ 15,000 fire dampers ✓ 300 PLAFONE heat and smoke exhaust dampers ✓ 600 OPTONE motorised heat and smoke exhaust dampers ✓ 600 special GFA 007 and GFA heat and smoke exhaust grilles ✓ 130 GDF transfer dampers ✓ 3,500 MR Mono modules



Partition in open position

Project

When Twisted is the best solution for integration in Knauf ceilings.

In this project, the architect specified Knauf Danoline Contur and Knauf Organic ceilings, with concealed framework.

CUSTOMER CONSTRAINTS

- Strict aesthetic requirements:
- Seamless integration in the Knauf Contur D+ ceiling
  - Single aesthetic finish for air supply and extract diffusers

ALDES SOLUTIONS

Development of a Twisted 850 Series swirl jet diffuser with concealed framework:

- **Aesthetic diffuser** adapted to architect specifications
- **Custom dimensions** to adapt to this very particular ceiling
- **Innovative attachment system** to simplify installation to this type of ceiling 1
- **Identical aesthetic finish** for air supply and extract diffusers
- **Airflow of 150 m³/h to 600 m³/h** possible with same diffuser

KNAUF OFFICES IN BRUSSELS



Execution

Buildings	Knauf offices in Brussels
Architect	Magali Patureau
Ceiling type 1	Knauf Danoline Contur
Danoline constraint	Removable ceiling with concealed framework
Ceiling type 2	Knauf Organic
Knauf Organic constraints	Colour + height adjustment
City	Brussels

We can design diffusers for other types of concealed-framework ceilings.

Contact us!





CRÉDIT AGRICOLE HEAD OFFICE IN TOULOUSE

Project

How to deliver good air diffusion and aesthetic product integration?

Create diffusers which adapt to chilled beams supplied by the customer to guarantee the aesthetics required by the architects (continuous linear aspect, with 90° and different custom angles to close cleanly on each floor).

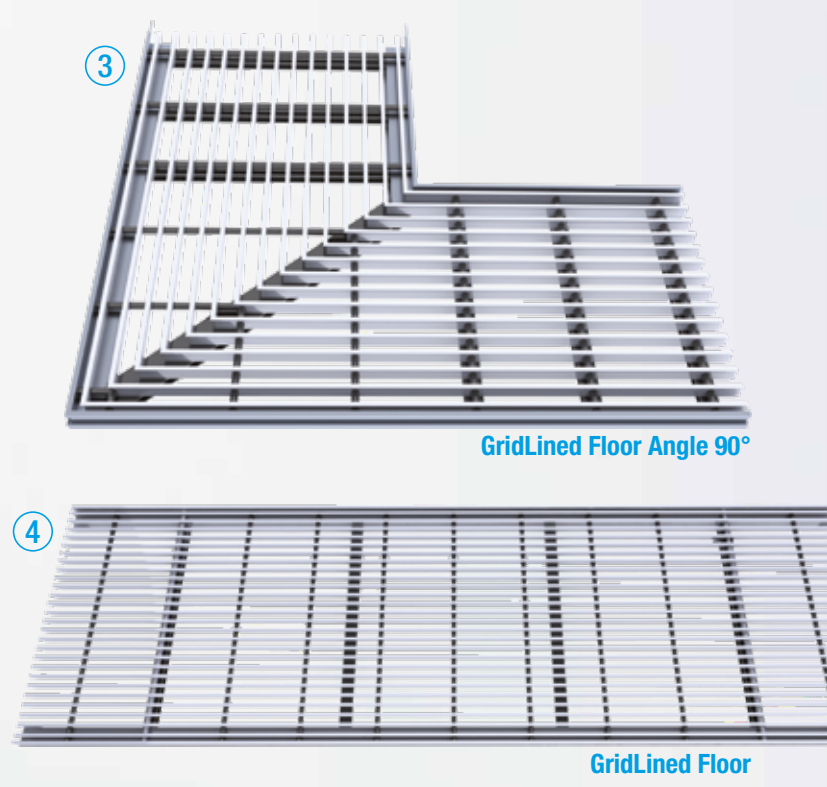
CUSTOMER CONSTRAINTS

- Building undergoing renovation, adapt to existing structure
- Adapt to chilled beams supplied
- Conserve aesthetic finish required by architects
- Comply with fast sample delivery turnaround for rapid validation by architects

ALDES SOLUTIONS

The floor grilles specially adapted to this project deliver heating and air conditioning by air:

- ① **Custom range:** e.g. width 361 mm and lengths from 1200 to 2000 mm
- ② **Adapt to existing structure:** the grille frame was adjusted for insertion into the chilled beams in place
- ③ **Angle pieces** to ensure continuity around the edges of the room
- ④ **Aesthetic finish:** refined finish on all details of the grille. The vanes and frame are made of natural hue anodised aluminium, while the tubes and stiffeners have a black anodised coating
- ⑤ **Express delivery of samples:** the quick reaction of the factory can produce and deliver samples within lead times matching the demands of the construction business



Execution

Building	Crédit Agricole head office, Toulouse 31
Site address	6 place Jeanne d'Arc, 31000 Toulouse
Building type	Offices
Details	10,000 m² of office space on eight storeys and 5,000 m² over three basement levels, 80 parking spaces
Surface area	15,000 m²
Aldes products	✓ 1,300 metres of GridLined Floor grilles in anodised aluminium with a natural and black colour finish. ✓ 10 ProtectONE® smoke and heat exhaust fans ✓ 5 VELONE heat and smoke exhaust roof fans ✓ 10 EasyVEC® 4000/5000 centralized mechanical extract box fans
Type of project	Refurbishment
Capacity	450 employees
Type of energy	Electrical
Length of work	Started in August 2017, delivery in October 2019

MSC MERAVIGLIA AND BELLISSIMA LINERS IN SAINT-NAZAIRE

Project

How to ensure comfortable air conditioning for cabins on the largest liners in Europe?

CUSTOMER CONSTRAINTS

- Cabins are low-height and narrow: CFD 3D digital simulation and testing on model cabins by AXIMA were necessary to validate the proposed solutions
- Easy filter cleaning
- Attachments to metal partition walls with high mechanical strength requirements due to vibrations generated on a liner
- Refined aesthetic finish required by architects
- Specific "Marine" RAL colours with reduced tolerances on colour and shine

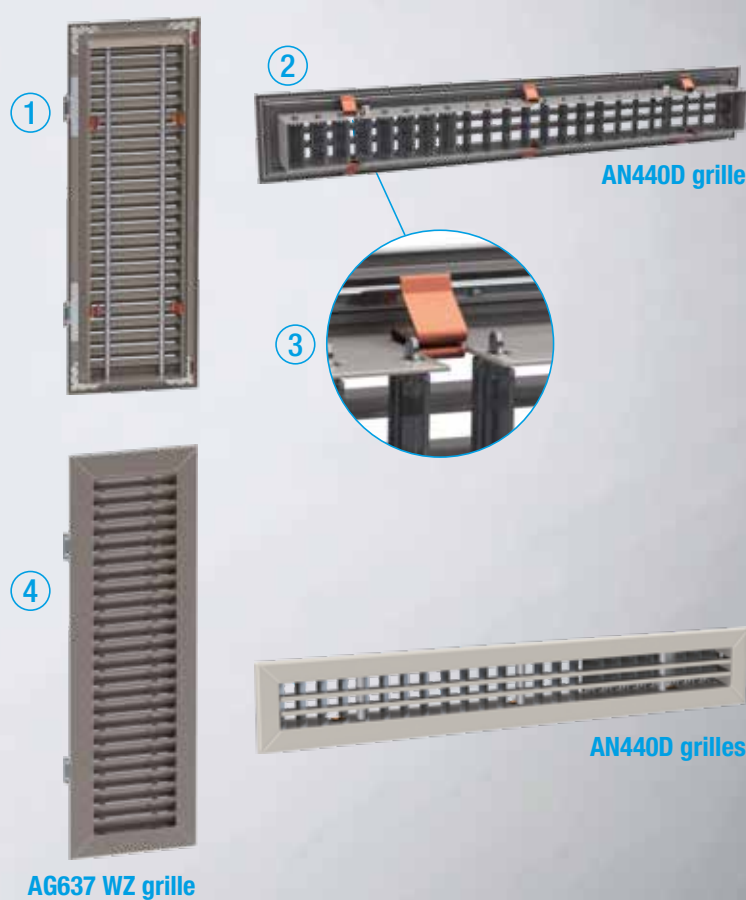
ALDES SOLUTIONS

Construction of an extract grille in partnership with our customer AXIMA, suited to the needs of the shipbuilder:

- ① **Hinged opening grille** with hinges as discreet as possible for easy access to filter
  - **Filter holder separate from grille:** designed to hold the filter in place when cleaning with a vacuum cleaner
  - **Airtight seal on frame**

Creation of an air supply grille with fixed bars and double deflection:

- **Reduced grille height** (63 mm) for improved aesthetic finish
- ② **Rear vanes** orientated in the factory based on results of 3D digital simulations
- ③ **Concealed attachment** using friction clips
- ④ **Four special paint systems** using NCS and RAL references
  - **Airtight seal on frame**



Execution

Name of project	MSC Meraviglia and Bellissima
Customer	AXIMA
Site address	Avenue Antoine Bourdelle, 44600 Saint-Nazaire
Building type	Liners
Details	316 m long, 32,000 m² of public spaces, top speed of 22.7 knots (40 km/h). Shops, themed restaurants, twenty bars and lounges, theatre, Polar Aquapark, five swimming pools and a show space designed to host Cirque du Soleil
Aldes products	✓ AG637 WZ extract grilles ✓ AN440D air supply grilles
Capacity	5714 passengers and 1550 crew
Type of energy	-
Length of work	Design work started in 2015, delivery in 2019





# INCREASE YOUR EFFICIENCY WITH Koanda 3D Selector



**What if the invisible became visible?**  
Selector Koanda 3D was developed to help construction professionals select the correct Aldes air diffusion product for each project. Select, position and enjoy a 3D view of air diffusers which respect the ambient and acoustic comfort of occupants.

- PROFESSIONAL**  
Display air jets in 3D both for air speed and temperature.
- FLEXIBILITY**  
Modify the settings and characteristics throughout the project; Selector Koanda 3D recalculates the results for you.
- RELIABLE RESULTS**  
Manage obstacles to ensure your design is as close to reality as possible.



- SIMPLICITY**  
Enjoy an accessible and user-friendly interface.
- TIME SAVINGS**  
Manage your whole project or quickly select just one terminal.
- CUSTOMER SATISFACTION**  
Produce a full, technical and visual report containing all terminals and their accessories (dampers, plenums etc.).

Additional information available online

<https://www.aldes-international.com/en/software/software/>

- **Thursday means training**

  - Familiarise yourself with the software in just 45 min.
  - Complete a case study with live chat.
- **Download the software**

  - Install the software directly on your PC.
  - Regular and automatic updates.
- **FAQ**

  - Find the answers to recurring questions without delay.
- **Tutorials**

  - Learn the software functions, step by step using our online videos.
  - Progress at your own pace.
- **Webinars**

  - Complete and share your experience in 90 mins.
  - Online conferences led by our network of experts.

F2BA20

## TYPES OF AIR JETS

### Small terminals

Wall-mounted BIM 300



Ceiling-mounted BIM 320



Ceiling-mounted SR 135



### Indoor grilles

Non-linear single wall grilles



Non-linear double wall grilles



Linear single wall grilles



Linear double wall grilles

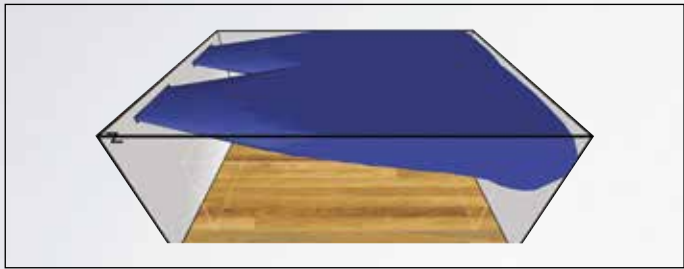




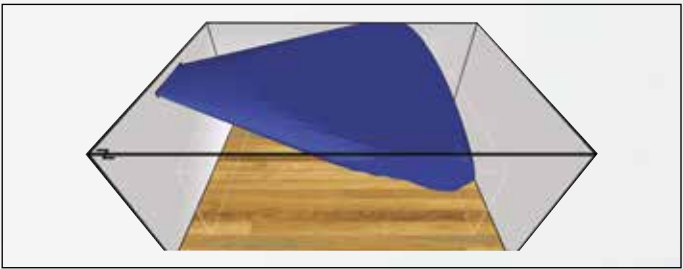
TYPES OF AIR JETS

Indoor grilles

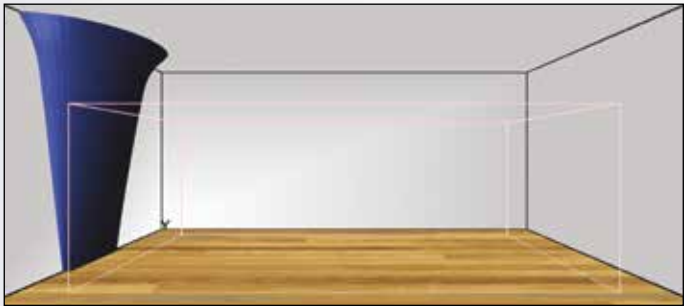
Wall grilles 22° deflection



Wall grilles 45° deflection



Floor grilles

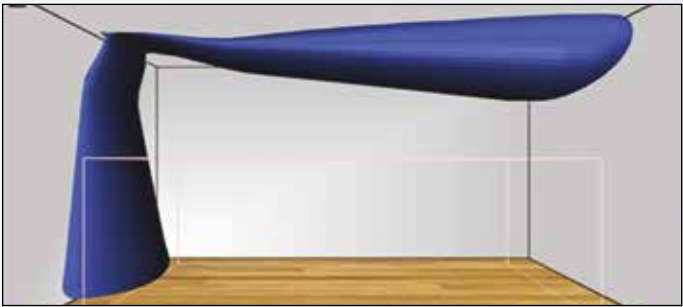


Slot diffusers

Lined - horizontal jet



Lined - vertical and horizontal jet



Lined - horizontal jet without obstacle



Lined - horizontal jet with beam

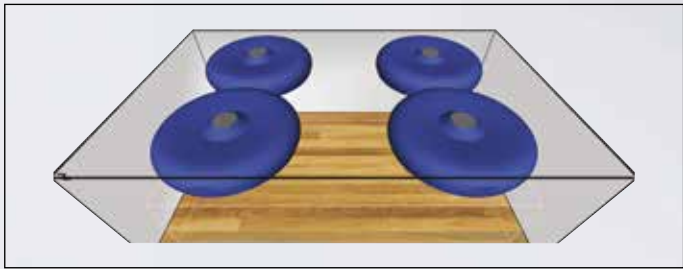


Lined Combined - horizontal and vertical jet

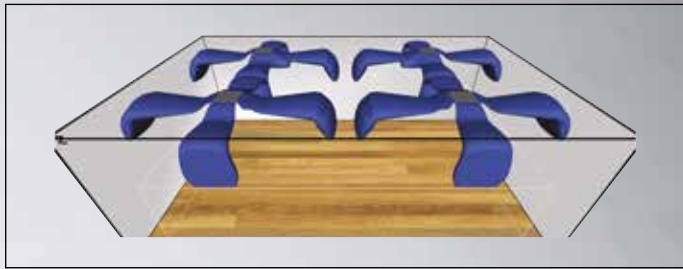


Ceiling-mounted grilles

Circular diffusers

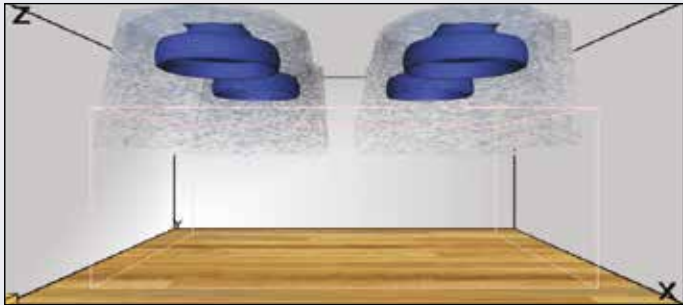


Square diffusers



Swirl jet diffusers

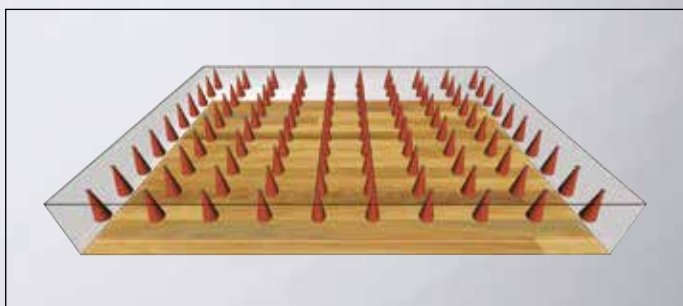
Twisted



AR 883 set at 30°



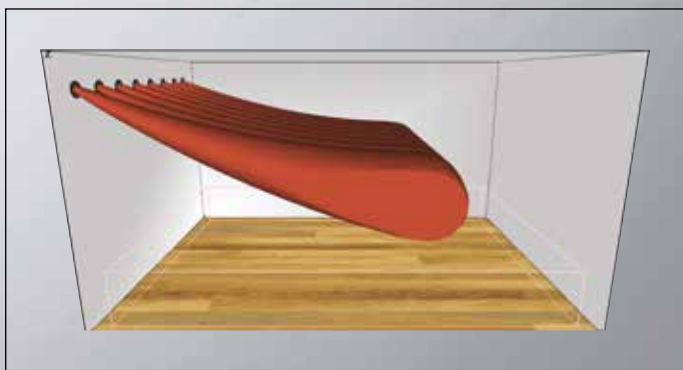
AR 883 set at 90° (winter mode)



AR 190 - horizontal jet



AR 190 - 30° downward angle (winter mode)





# INCREASE YOUR EFFICIENCY WITH Conceptor Ventilation



## The Aldes 3-in-1 software solution for all your ventilation projects

Conceptor Ventilation has become the go-to tool for construction professionals. Freely design and dimension air ductwork systems with guided assistance at each step of your project.



Individual housing module



Collective housing module



NEW  
Commercial  
module

### PROFESSIONAL

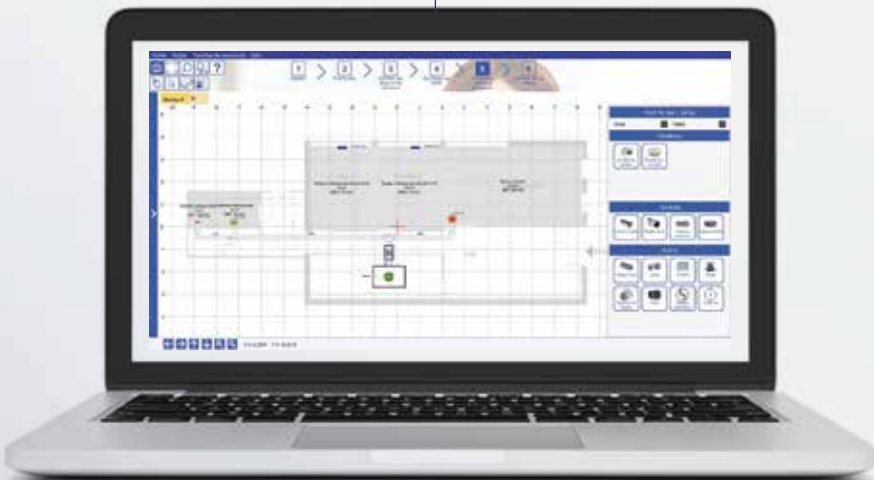
Dimension complex ductwork systems for small and medium commercial applications.

### TIME SAVINGS

Produce full studies, in next to no time, using an intuitive and user-friendly interface designed for your needs.

### RELIABLE RESULTS

Software data are constantly updated and tested by our staff.



### SIMPLICITY

Discover multiple functions with the assistant present at each step of the project.

### OPTIMISATION

The solution automatically selects the most appropriate products for your design.

### CUSTOMER SATISFACTION

Generate a full report in record time for your customers, including the essential ductwork data.

## EUROPE

### FRANCE

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[www.aldes.fr/www.pro.aldes.fr](http://www.aldes.fr/www.pro.aldes.fr)

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[www.exhausto.se](http://www.exhausto.se)

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[www.aldes.re](http://www.aldes.re)

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# AldesArchitect<sup>®</sup>

AIR DIFFUSERS AND SMOKE AND HEAT EXHAUST GRILLES ALSO HAVE  
THE RIGHT TO BE ELEGANT AND HIGH-END

## Essentielle range:

offers 100 RAL paint shades from stock.  
MATT (30%+/-5%) or SATIN-FINISH  
(70%+/-5%) shine.



## Elégance range:

films or paint: metallic, brushed metal,  
wood or marble shades.



## Exclusive range:

is a customised offer. Application of a  
totally customised pattern.







SMALL TERMINALS

SR 135



SR 145



Core terminals

A wide range of metal core terminals adjustable for supply and extract in residential and commercial buildings. The aesthetic terminals SR 135 are fitted with an acoustic core to ensure low sound levels. The SR 143 can only be used for extract whereas the SR 145 is used for air supply.



BIM2



SCR 125



Small terminals

The aesthetically-pleasing, aluminium BIM2 is intended for air supply and extract in all centralized mechanical extract or heat recovery ventilation applications in small commercial premises.

Safety terminals

The SCR 125 has been specially designed for prison or psychiatric hospital environments. It is ideal for all ventilation applications in security-sensitive premises.



PRODUCT	USE	POSITIONING	DIMENSIONS (MM)	STANDARD FINISHES	ALDESARCHITECT® FINISHES	COMFORT AIRFLOW (M³/H)*	CEILING HEIGHT
SR 143 / SR 145	Air supply/Extract	Ceiling or wall	Ø 80 to Ø 200	White steel RAL 9003 matt 30%	Essentielle (RAL)	80 to 190	< 3 metres
SR 149	Air supply or extract	Ceilings or wall	Ø 100 to Ø 200	White polypropylene RAL 9003	-	50 to 400	< 3 metres
SR 135	Air supply or extract	Ceilings	Ø 80 to Ø 200	White steel RAL 9003 matt 30%	Essentielle (RAL)	40 to 300	< 3 metres
BIM2	Air supply or extract	Ceilings or wall	Ø 125 to Ø 200	White aluminium RAL 9003 matt 30%	-	100 to 230**	< 3 metres
BEM 780	Extract	Ceilings or wall	Ø 125 to Ø 200	White aluminium RAL 9003 matt 30%	Essentielle (RAL)	30 to 300	< 3 metres
SCR 125	Air supply or extract	Ceilings or wall	Ø 100 to Ø 250	White steel RAL 9003 matt 30%	Essentielle (RAL)	30 to 400***	< 3 metres

\* For Lw < 35 dB(A)  
\*\* For Lp10A < 35 dB(A)  
\*\*\* For Lw < 30 dB(A)



INDOOR GRILLES

GRIDLINED WALL



**Wall-mounted grilles**  
The Gridlined Wall grilles are fitted with adjustable vanes that allow air supply and extract. Compatible with **AldesArchitect®**, they will be among the most aesthetic.

GRIDLINED EXHAUST



**Wall- or ceiling-mounted extract grilles**  
The Gridlined Exhaust grilles can extract air in all ventilation and air-conditioning applications. Corrosion-resistant and compatible with **AldesArchitect®**.

GRIDLINED FLOOR



**Floor grilles**  
The Gridlined Floor grilles can supply and extract air for all ventilation and air-conditioning applications. They are also perfectly suitable for chlorine-based atmospheres such as swimming pools.

SC 102 D



**100 series**  
The 100 series grilles can supply and extract air in a room for all ventilation and air-conditioning applications.  
The SC 102 D is a steel dual deflection wall-mounted grill with individually adjustable, movable horizontal rear and vertical front vanes.

PRODUCT	USE	POSITIONING	DIMENSIONS (MM)	STANDARD FINISHES	ALDESARCHITECT® FINISHES	COMFORT AIRFLOW (M³/H)**	CEILING HEIGHT
Gridlined Wall	Air supply or extract	Wall- or perimeter-mounted	L: 200 to 2000 H: 75 to 800 (300 for the air supply)	Anodised or white aluminium RAL 9003 matt 30%	Essentielle (RAL) Élégance Exclusive	300 to 4000*	Full height
Gridlined Exhaust	Extract	Wall or suspended ceiling	L: 200 to 2000 H: 75 to 800	Anodised or white aluminium RAL 9003 matt 30%	Essentielle (RAL) Élégance Exclusive	100 to 2500*	< 3 metres
Gridlined Floor	Air supply or extract	For use on floor	L: 200 to 2000 H: 75 to 400	Anodised or white aluminium RAL 9003 matt 30%	Essentielle (RAL)	300 to 4000*	< 3 metres
SC 101 D / SC 102 D / AC 101 D / AC 102 D	Air supply	Wall	75 x 75 to 1200 x 600 with increments of 25 in L and H	White steel RAL 9003 matt 30% or anodised aluminium, natural satin-finish	Essentielle (RAL)	150 to 5000	< 3 metres
SC 101 / SC 102 / AC 101 / AC 102	Extract	Wall	75 x 75 to 1200 x 600 with increments of 25 in L and H	White steel RAL 9003 matt 30% or anodised aluminium, natural satin-finish	Essentielle (RAL)	200 to 5000	< 3 metres
GD 102/GD 102 D/SD 102/SD 102 D	Air supply or extract	Positioning on cylindrical or oblong duct	L: 325 to 1225 H: 75 to 225	Galvanised steel, natural hue or white steel RAL 9003 matt 30%	Essentielle (RAL)	100 to 3500	Full height

\* For a one-metre length.  
\*\* For Lw < 35 dB(A)





INDOOR GRILLES

SC 121



**Wall-mounted extract grilles**  
The SC 121 steel grille extracts air in the entire ventilation or air-conditioning installation in a commercial environment.

AC 161



**Wall-mounted extract grilles with filter**  
The AC 161 aluminium opening grille with filter extracts air for ventilation or air-conditioning systems in a commercial environment.

AC 181



**Transfer grilles**  
The AC 181 grille has a blocked-vision function and can thus transfer air from one room to another in commercial buildings.

AG 637



**Ceiling extract grille**  
The AG 637 ceiling grille is used to extract air. It can replace a suspended ceiling tile and open up for easy access to the included filter.

PRODUCT	USE	POSITIONING	DIMENSIONS (MM)	STANDARD FINISHES	ALDESARCHITECT® FINISHES	COMFORT AIRFLOW (M³/H)*	CEILING HEIGHT
SC 121 / SC 125	Extract	Wall	75 x 75 to 1200 x 600 with increments of 25 in L and H	White steel RAL 9003 30% matt	Essentielle (RAL)	200 to 5000	< 3 metres
AC 121 / AC 123 / AC 124	Extract	Wall	75 x 75 to 1200 x 600 with increments of 25 in L and H	White aluminium RAL 9003 30% matt or anodised aluminium natural satin-finish	Essentielle (RAL)	200 to 5000	Full height
AO 123 / AU 124 / SC 370	Extract	Suspended ceilings	600 x 600 and 1200 x 600 (except AU 124) 100 x 100 to 1200 x 600 with increments of 25 in L and H	White aluminium RAL 9003 30% matt or White steel RAL 9010 30% matt or Natural anodised aluminium	Essentielle (RAL) Except AO 123	200 to 5000	< 3 metres
AC 161 / AC 163	Extract	Wall	172 x 122 to 1222 x 622 with increments of 25 in L and H	Natural, satin-finish anodised aluminium or RAL 9003 30% matt	Essentielle (RAL)	200 to 5000	Full height
AG 637 / AC 174	Extract	Suspended ceilings or plaster ceilings	AG 637: 300 x 300 to 1200 x 600 with increments of 25 in L and H AC 174: 200 x 200 to 600 x 600 with increments of 25 in L and H	Natural anodised aluminium (AG 637) or RAL 9003 30% matt	Essentielle (RAL)	200 to 5000	Full height
AC 181	Air transfer from one room to another	Positioned in partition, mainly as door vent	200 x 65 to 1200 x 600 with increments of 25 mm in L and H	White aluminium RAL 9003 30% matt or anodised aluminium natural satin-finish	Essentielle (RAL)	50 to 5000	< 3 metres
SR 356	Extract	Wall	263 x 102 up to 406 x 203	White steel RAL 9003 30% matt	-	150 to 750	< 3 metres

\* For Lw < 35 dB(A)

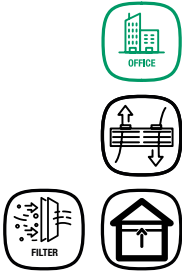


CEILING DIFFUSERS

ALD 610K COMBINED



**Attractive diffusers**  
The ALD 610K multi-slot diffuser combines the ultimate in discretion with the possibility of centralising air supply and extract in a single product.



SC 310/SC 360



**Perforated diffusers**  
The "perforated sheet" look of the SC 310/SC 360 series fits seamlessly into office or open-plan ceilings.



A 842



**Circular air supply diffusers**  
The A 842 diffuser is designed for ventilation or air-conditioning systems with a wide adjustable airflow range in commercial buildings.



SF 704



**Multi-directional square diffusers**  
The SF 704 diffuser offers four air supply directions with plenum available for air diffusion of ventilation or air-conditioning systems in commercial buildings.



PRODUCT	USE	POSITIONING	DIMENSIONS (MM)	STANDARD FINISHES	ALDESARCHITECT® FINISHES	COMFORT AIRFLOW (M³/H)*	CEILING HEIGHT
SC 831 / SC 832 TP	Air supply	Suspended ceilings or plaster ceilings	Ø 160 to Ø 355 TP: 600 x 600	White steel RAL 9003 matt 30%	Essentielle (RAL)	150 to 1400	< 3 metres
A 842 / A 842 TP	Air supply	Suspended ceilings and plaster ceilings or on exposed duct	Ø 160 to Ø 630 TP: 600 x 600	White aluminium RAL 9003 30% matt	Essentielle (RAL)	200 to 2600	Full height
SF 704/SF 704 TP	Air supply or extract with optional filter	Suspended ceilings or plaster ceilings	150 x 150 to 600 x 600 with increments of 75 (square dimensions) TP: 600 x 600	White steel RAL 9003 matt 30%	Essentielle (RAL)	100 to 1500	< 5 metres
AN 704 TP / AF 704	Air supply or extract with optional filter	Suspended ceilings or plaster ceilings	150 x 150 to 600 x 600 with increments of 75 TP: 600 x 600	Natural, satin-finish or white, anodised aluminium RAL 9003 30% matt	Essentielle (RAL)	100 to 1500	< 5 metres
SF 704 R TP	Air supply	Suspended ceilings or plaster ceilings	Ø 160 to Ø 315 TP: 600 x 600	White steel RAL 9003 30% matt	Essentielle (RAL)	150 to 1500	< 5 metres
SC 310/319/ SC 360/369	Air supply or extract with filter available as option	Suspended ceilings and plaster ceilings	Ø 160 to Ø 315 600 x 600 or 675 x 675	White steel RAL 9003 matt 30%	Essentielle (RAL)	125 to 1600	< 5 metres
ALD 610K	Air supply or extract with filter available as option	Suspended ceilings	600 x 600 or 675 x 675 1 to 4 slots	White aluminium RAL 9003 30% matt	Essentielle (RAL)	150 to 1400	< 3 metres
ALD 610K Combined	Combined air supply and extract with optional filter	Suspended ceilings	600 x 600 or 675 x 675 1 to 4 slots	White aluminium RAL 9003 30% matt	Essentielle (RAL)	150 to 1400	< 3 metres

\* For Lw < 35 dB(A)





SWIRL JET DIFFUSERS

TWISTED



**Twisted swirl jet diffusers**  
The Twisted diffuser is designed to fit in seamlessly in most commercial premises. Its swirl air jet with high mixing capacity is especially suited for office premises or public buildings with large glazed areas.

AR 883 THERMO



**High diffusers with swirl air jets**  
The AR 883 diffuser with adjustable vanes is intended for spaces with high ceilings, such as exhibition halls. The automatic orientation of the diffusion vanes (electric motor or heat-sensitive spring) de-stratifies the hot air in winter, whilst guaranteeing comfort during periods when air conditioning is required.

SF 785



**Diffusers with high mixing rate**  
The SF 785 and SF 786 diffusers are designed for the air diffusion of ventilation or air-conditioning systems in commercial buildings. They quickly balance temperatures in the room.

SF 786



PRODUCT	USE	POSITIONING	DIMENSIONS (MM)	STANDARD FINISHES	ALDESARCHITECT® FINISHES	COMFORT AIRFLOW (M³/H)*	CEILING HEIGHT
Twisted	Air extract or supply with incorporated filter	Suspended ceilings or plaster ceilings	600 x 600, 625 x 625 or 675 x 675 or circular Ø 555	White steel RAL 9003 30% matt shine	Essentielle (RAL) Élégance Exclusive	150 to 600	< 5 metres
SF 785	Air supply	Suspended ceilings or plaster ceilings	400 x 400 to 825 x 825 600 x 600	White steel RAL 9003 - 85%	Essentielle (RAL)	150 to 800	< 5 metres
SF 775	Air supply	Suspended ceilings or plaster ceilings	400 x 400 to 825 x 825 600 x 600	White steel RAL 9003 - 85%	Essentielle (RAL)	150 to 1200	< 5 metres
SF 786	Air supply	Suspended ceilings or plaster ceilings	600 x 600	White steel RAL 9003 - 85%	Essentielle (RAL)	300 to 600	< 5 metres
AR 883	Air supply	Ceilings or on exposed duct	Ø 250 to Ø 630	White steel RAL 9003 30% matt	Essentielle (RAL)	200 to 2500	> 5 metres
AR 883 Thermo	Air supply	Ceilings or on exposed duct	Ø 250 to Ø 630	White aluminium RAL 9003 - 85%	Essentielle (RAL)	180 to 6000	> 5 metres
SR 861	Air supply	Fixed ceilings	Ø 125 to Ø 315	White steel RAL 9003 - 85%	Essentielle (RAL)	50 to 600	< 5 metres
SF 861 T	Air supply	Suspended ceilings	Ø 125 to Ø 315	White steel RAL 9003 - 85%	Essentielle (RAL)	50 to 600	< 5 metres

\* For Lw < 35 dB(A)





LINED® SERIES

The Lined® series slot diffusers are designed to fit in harmoniously with other technical elements of the ceiling (lighting etc.) and suspended ceilings. Compatible with the AldesArchitect® finish, they will match all your decorative and design wishes perfectly.

LINED®



The LINED® diffuser is designed for air diffusion or extract in commercial buildings.

LINED® SLIM



The frameless LINED® Slim diffuser has been designed to integrate seamlessly with metal ceilings.

LINED® TP



The LINED® TP diffuser has been designed to replace a standard suspended ceiling tile.

LINED® COMBINED



The LINED® Combined diffuser has a double plenum for combined extract and air supply.

PRODUCT	USE	POSITIONING	DIMENSIONS (MM)	STANDARD FINISHES	ALDESARCHITECT® FINISHES	COMFORT AIRFLOW (M³/H)**	CEILING HEIGHT
LINED®	Air supply or extract with optional filter	Suspended ceilings	L: 300 to 2000 in one piece. 1 to 8 slots	White aluminium RAL 9003 30% matt or anodised aluminium	Essentielle (RAL) Élegance Exclusive	100 to 1200*	< 5 metres
LINED® TP	Air supply or extract with optional filter	Suspended ceilings	L: 600 to 1600 in one piece. 1 to 8 slots	White aluminium RAL 9003 30% matt	Essentielle (RAL) Élegance Exclusive	100 to 1200*	< 5 metres
LINED® Slim	Air supply or extract with optional filter	Suspended, plaster or metal ceilings	L: 300 to 2000 in one piece. 1 to 8 slots	White aluminium RAL 9003 30% matt	Essentielle (RAL) Élegance Exclusive	100 to 1200*	< 5 metres
LINED® Combined	Air supply and extract combined	Suspended ceilings or plaster ceilings	L: 500 to 2000 (except TP). 1 to 8 slots	Natural anodised satin-finish or white aluminium RAL 9003 30% matt	Essentielle (RAL) Élegance Exclusive	100 to 600*	< 5 metres
ALD 600	Air supply or extract with optional filter	Suspended ceilings or plaster ceilings	L: 550, 900, 1,150 and 1500. 1 to 4 slots	Natural satin-finish anodised aluminium or white aluminium RAL 9003	Essentielle (RAL)	60 to 1000	< 5 metres

\* For a one-metre length

\*\* For Lw < 35 dB(A)



SPECIAL DIFFUSERS

AR 190



**AR 190 series**  
is a range of long-throw diffusers for very high spaces such as airports and exhibition halls. This range can in particular bring air to occupied areas and is ideal for avoiding stratification in heating.

SC 984



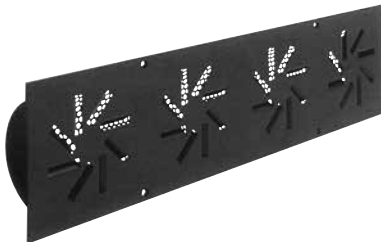
**SC 984**  
is a rotary multi-nozzle diffuser for air diffusion in commercial buildings.

SP 390



**SP 390 series**  
is a range of diffusers that provides cooling and air-conditioning in commercial and industrial premises with low speed air supply from 90 to 360° or on a flat surface.

MINI AWT



**The Mini AWT**  
is a stair riser diffuser suitable for amphitheatre or auditorium spaces. Its swirl jet diffusion ensures correct temperature balance.

PRODUCT	USE	POSITIONING	DIMENSIONS (MM)	STANDARD FINISHES	ALDESARCHITECT® FINISHES	ACOUSTIC COMFORT AIRFLOW (M³/H)	CEILING HEIGHT
SP 391	Air supply	Wall-mounted in occupied area on floor	Ø 100 to Ø 630 H 400 to 1800	White steel RAL 9003% matt	Essentielle (RAL)	150 to 10000	Full height
SP 392	Air supply	Wall-mounted in occupied area on floor	Ø 100 to Ø 500 H 400 to 1500	White steel RAL 9003 30% matt	Essentielle (RAL)	150 to 10000	Full height
SP 393	Air supply	Wall-mounted in occupied area on floor	Ø 160 to Ø 630 H 400 to 1500	White steel RAL 9003 30% matt	Essentielle (RAL)	150 to 10000	Full height
SP 394	Air supply	Wall-mounted in occupied area on floor	Ø 315 to Ø 630 H 1000 to 1800	White steel RAL 9003 matt 30%	Essentielle (RAL)	150 to 10000	Full height
SP 395	Air supply	Wall-mounted in occupied area on floor	Ø 315 to Ø 630 H 300 to 900	White steel RAL 9003 30% matt	Essentielle (RAL)	150 to 10000	Full height
SP 396	Air supply	Wall-mounted in occupied area on floor	Ø 100 to Ø 250 H 300 to 600	White steel RAL 9003 30% matt	Essentielle (RAL)	150 to 10000	Full height
SC 984	Air supply	Suspended ceiling	Ø 125 to Ø 315	White steel RAL 9003 30% matt	Essentielle (RAL)	50 to 1000	Full height
AR 190	Air supply	Wall- or floor-mounted on perimeter	Ø 160 to Ø 400	White aluminium RAL 9003 - 85%	Essentielle (RAL)	100 to 2500	Full height
AR 190 Thermo	Air supply	Wall- or floor-mounted on perimeter	Ø 300 to Ø 400	White steel RAL 9003 - 85%	Essentielle (RAL)	100 to 2500	Full height
CSI/CSF/ CSP/fabric	Hot or cool conditioning	Ceilings	Any length with Ø from 200 to 1250	Grey, aluminium or black for the M1 fabric	-	-	Full height
Mini AWT	Air supply	Installation on step riser behind seats or on floor	130 to 498 long 130 to 210 high	Black steel RAL 9005 matt 30%	Essentielle (RAL)	10 to 120	Full height



OUTDOOR GRILLES

AG 639



Façade grilles

The AG 639 rain screen is suitable for all types of façade and is designed to be "anti-intrusion" and thus maintain building security.

AP 639



Penthouses

Penthouses from the AP 639 range provide for the intake or exhaust of air via the building's roof. They are very useful for the smoke and heat exhaust ductwork, for example.

AWA 251



Façade grilles

The AWA 251 and AR 637 grilles take in fresh air or discharge stale air from ventilation systems in commercial or collective buildings.

AR 637



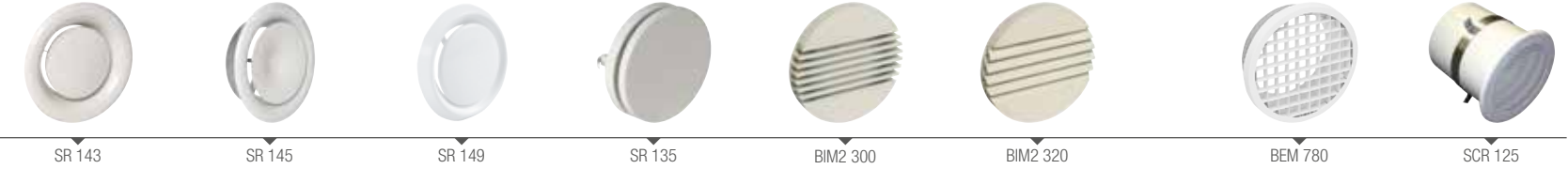
PRODUCT	USE	POSITIONING	DIMENSIONS (MM)	STANDARD FINISHES	ALDESARCHITECT® FINISHES	AIRFLOW (M³/H)*
AVF 75 / ANF 75 / ATO 75	Backdraft flaps. Overpressure or negative pressurisation of a room	Wall-mounted or duct-mounted in ductwork	300 x 200 to 1000 x 500	Raw aluminium and satin-finish anodised aluminium	Essentielle (RAL)	250 to 10000
AU 661 / AG 662 / AG 663	Backdraft flaps. Overpressure or negative pressurisation of a room	Wall-mounted or duct-mounted in ductwork	200 x 200 to 1600 x 2,000 with increments of 25 in L and H and 150 in H	Raw aluminium	Essentielle (RAL)	250 to 10000
AWA 251	Air intake or stale air exhaust	Wall-mounted outdoors	200 x 75 to 1200 x 1200 with increments of 25 in L and H	Satin-finish anodised aluminium	Essentielle (RAL)	250 to 8000
AG 638	Air intake or stale air exhaust	Wall-mounted outdoors	200 x 200 to 1200 x 1,200 with increments of 100 in L and H and 100 in H	Anodised aluminium	Essentielle (RAL)	250 to 5000
AG 639	Air intake or stale air exhaust	Wall-mounted outdoors	600 x 600 to 2000 x 2000 in a single unit	Raw aluminium	Essentielle (RAL)	Up to 25000
AP 639	Air intake or stale air exhaust	On roof	300 x 300 to 1200 x 1200 Heights: 300 to 800 mm	Raw aluminium	Essentielle (RAL)	1,000 to 32000
AG 645	Air intake or stale air exhaust	Wall-mounted outdoors	200 x 200 to 1600 x 2,000 with increments of 25 in L and H and 100 in H	Raw aluminium	Essentielle (RAL)	1000 to 15000
AR 637	Fresh air intake or stale air exhaust	Wall-mounted outdoors	Ø 125 mm to Ø 630	Raw aluminium or natural satin-finish anodised aluminium	Essentielle (RAL)	50 to 3000

\* For Lw < 35 dB(A)

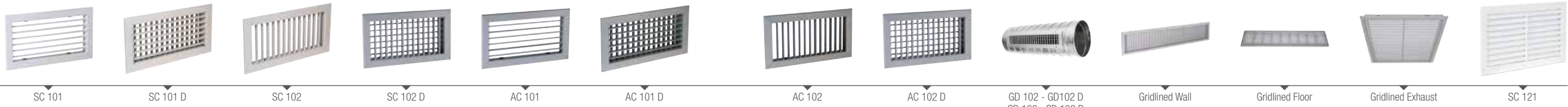


AIR DIFFUSION  
RANGE

Small terminals



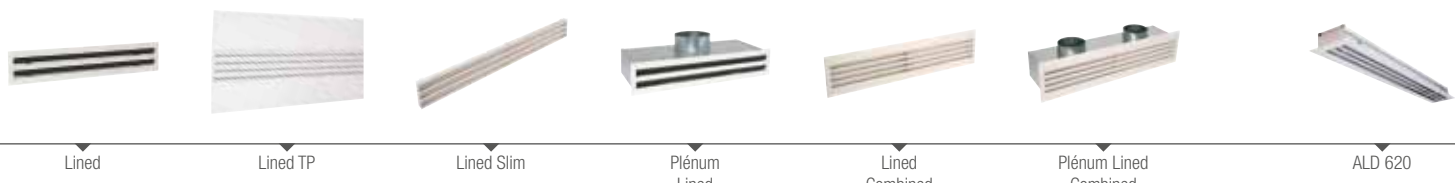
Indoor grilles



Ceiling diffusers



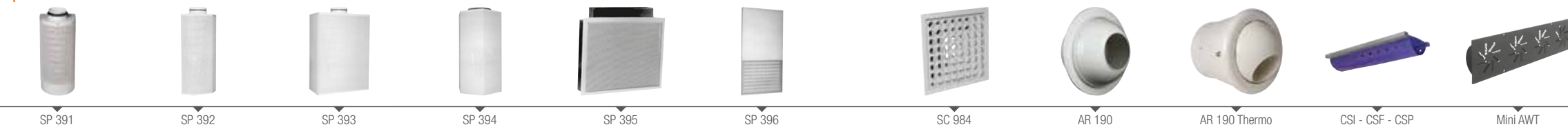
Slot diffusers



Swirl jet diffusers



Special diffusers



Outdoor grilles







For more information about **Diffusors** range,  
contact your Aldes advisor,  
visit [aldes.com](http://aldes.com) or find us at:



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